PATENT ABSTRACTS OF JAPAN

(11)Publication number:

05-078735

(43) Date of publication of application: 30.03.1993

(51)Int.CI.

3/04 C21D 5/00 C21D C21D 6/00 C22C 37/00 C22C 38/00

(21)Application number: 03-247414

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(22)Date of filing:

26.09.1991

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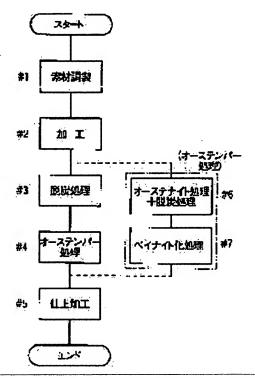
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(54) FERROUS MEMBER AND ITS MANUFACTURE

(57) Abstract:

PURPOSE: To provide a ferrous member high in the coefficient of thermal expansion, having high seizing resistance to an aluminum alloy and good in workability and its manufacturing method.

CONSTITUTION: Steel or cast iron contg. C. Si and Mn is subjected to decarburizing treatment and is thereafter subjected to austempering treatment or is subjected to decarburizing treatment at the time of austempering treatment to form its structure into a mixed one contg. ferrite and retained austenite on the surface part or a mixed one contg. ferrite, retained austenite and bainite. In the case the stock is made of steel, it contains, by weight, 0.7 to 1.2% C, 1.5 to 2.5% Si and 0.5 to 2.0% Mn, and in the case the stock is made of cast iron, it contains 2.6 to 4.0% C, 1.5 to 2.5% Si and 0.2 to 1.0% Mn. Preferably, an aluminum alloy member is used as its mate.



LEGAL STATUS

[Date of request for examination]

08.04.1998

[Date of sending the examiner's decision of rejection]

06.02.2001

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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